PHILIP MORRIS U. S. A.

INTER-OFFICE CORRESPONDENCE

Richmond, Virginia

To: Ms. Debbie Watson **Date:** June 26, 1990

From: R. M. Jones

Subject: Comparison of Smoking Results from TITL and PM

The data from ~~TPM~~ TAR, nicotine, CO and puff count from the six manufacturers' brands run at TITL and PM have been analyzed. There appears to be a tendency for the results from PM to be about 4% lower than the results from TITL. This varies with analyte and manufacturer.

The range of values in each data set obviated the use of either a t-test or an analysis of variance. The data were analyzed by regression techniques. It was found that all data sets could be described best by an equation without an intercept. This indicated that there was no "real" constant offset between the TITL and PM data. All the slopes were between 1.01 and 1.09 which indicates that the TITL data were from 1 to 9% higher than the PM data. Most slopes were 1.03 to 1.05 for ~~TPM~~ TAR and nicotine, 1.01 to 1.03 for puff count and 1.06 to 1.09 for CO. All r-squared values were over 0.990. Table I summarizes the results by manufacturer and analyte. Figures 1 through 24 show the scatter plots of the data with the regression lines.

If there is any tendency to depart from the lines shown in the figures it is at the extremes. Since the majority of the point on the graphs are in the central portions it is difficult to say whether the deviations are either "real" or significant. There is definitely no indication that the extremes are profoundly influencing the regressions.

If ~~T~~there is any other information which you need please let me know.

R M Jones

RMJ:f

Attachment

cc: Myron Johnston
Sam Nelson
Ed Wickham
Central File

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